



www.mondialcolor.it



COMPANY WITH
CERTIFIED MANAGEMENT SYSTEM
= UNI EN ISO 9001 =

PRODUCT DATA SHEET

PRODUCT: **EPOCLAD**
Abrasion resistant epoxy-ceramic coating

CODE: **COMP. A 318**
COMP. B 900018 - CAT. EPOSSIDICO LR

PRODUCT DESCRIPTION:

EPOCLAD is a high performance abrasion resistant polymeric-ceramic coating, designed to obtain the maximum resistance to abrasion and corrosion in tools for handling fluids or fluid-moved machines. The special zirconium ceramics, strictly spherical, ensure an exceptional mechanical strength, while the special polymers confer to Epoclad excellent chemical resistance to a wide range of basic and acid substances, hydrocarbons and lubricants, as well as direct bonding to metals. EPOCLAD can also be used on concrete after a suitable treatment. Examples of some applications:

- the coating of centrifugal pumps for transfer of water containing sands and silt (such as sewage) or large draining pump used in hydraulic drainage of territories;
- the coating of equipment in the hydroelectric sector;
- the cover of hydraulic brakes for controlling and testing of electric or internal combustion engines;
- chemical processing equipment;
- pipes for abrasive fluids.

SURFACE PREPARATION:

The better the preparation of the substrate, better and longer lasting will be the result. For particularly harsh operating conditions we recommend a white metal blasting (grade Sa3). For less severe conditions an almost white metal (grade Sa 2.5) is enough. A commercial blasting or alternatively a good quality mechanical cleaning are often acceptable. The product must be applied strictly on dry surfaces, clean, perfectly free of oil, grease, dust, moisture or other contaminants.

APPLICATION METHODS:

Spray, brush or roll. The recommended application is by airless spray, we recommend using a short paint tube (max 10m) and increased section (inner diameter from 4.5mm to 5.5mm). The dry film thickness can be increased depending on the service duty. And 'it recommended to carry out the steel-preparation rounding sharp corners in accordance with ISO 8501-3. We recommend a thorough stripe coating roller and brush on the corners in order to achieve even thickness at the critical points (edges, corners and little accessibili zones from the spray).

APPLICATION INSTRUCTIONS:

CONVENTIONAL SPRAY LOW PRESSURE PUMP		AIRLESS AIRMIX	
Nozzle diameter (mm)	÷	Pressure ratio	45:1
Product pressure (Atm)	÷	Nozzle diameter (inch)	0,019÷0,029
Air pressure	÷	Product pressure (Atm)	200,0÷250,0



www.mondialcolor.it



COMPANY WITH
CERTIFIED MANAGEMENT SYSTEM
= UNI EN ISO 9001 =

TECHNICAL DATA:

Mechanism of hardening	chemical reaction
Specific weight (kg / l) *	1,55 (±3%)
Volume solids (%) *	95,5 (±2%)
Medium dry film thickness (microns)	250
Correspondence wet film thickness (microns)	262
Yield to the average or recommended thickness (m ² / kg) *	2,46
Consumption at the average or recommended thickness (Kg / m ²) *	0,406
Touch dry at 25 ° C (min)	60
Recoat time min. recommended 25 ° C (hours)	8
Recoat time max. recommended 25 ° C (days)	4
Hard dry at 25 ° C (days)	7
Recommended application temperature (° C)	+10 ~ +40
Maximum operating temperature (° C)	90
Pot life at 25 ° (minutes)	30
Mixing ratio by weight	20,0%
Thinner	6030000
Aspect of the film	semigloss
Color	bluegray
Storage in suitable conditions (months)	12

N.B.

* Data referred to colour bluegray. The solid content values, specific weight and yield were calculated with theoretical method. Thickness and performance are indicative, in fact vary greatly depending condition of substrate, absorption, porosity, surface irregularities and application method. Data referred to the mixture of component A + 20% by weight of Comp.B



www.mondialcolor.it



COMPANY WITH
CERTIFIED MANAGEMENT SYSTEM
= UNI EN ISO 9001 =

ADDITIONAL INFORMATION:

This is a two-component product. Before mixing the two components it is recommended to homogenize the component possibly with agitator and shake vigorously, possibly without opening, the packaging of component b. After mixing and addition of appropriate thinner, agitation should be continued until it became homogeneous. In order to use the correct mix ratio, necessary to obtain the best results, we recommend to catalyse only entire packs. In case you want to use only a portion of the pack, you should equip with adequate precision scale for catalysis by weight and appropriate sized containers for catalysis by volume. The pot life (time of use after catalysis) is significantly reduced by increase of temperature. Ambient temperature has influence on curing time which, under 10° C is extended considerably. Epoxy products are not suitable to use at low temperatures (typically under 5-8° C), except through the use of a specific catalyst (winter grade). The temperature of the surface to be treated must be at least 3° C higher than the ambient temperature. If this condition is not met the resulting condensation, not always visible, may easily lead to phenomena of non-adherence. The coating requires a period of 7-15 days at 25° C for complete curing. Carefully remove any accumulated roughness prior to the application of subsequent coats. It is recommended to implement all necessary measures (development of equipment for painting, using any thinner retardant-wetting thinner, position yourself upwind, proper progression of the surfaces to be painted) to prevent the accumulation of dust coating, which often causes inhomogeneity of the film.

IMPORTANT NOTE

All information contained in this form are the result of laboratory tests carried out under controlled conditions and well-defined and / or correspond to our most advanced and current technical and practical knowledge. This does not exempt the customer, given the variability of environmental conditions and personal systems of application, from carrying out their own investigations and to make their own eligibility checks. Mondial Color assumes no responsibility for any damage caused by improper use of the product. The values of specific weight, solids by volume and yields were calculated by theoretical methods. This sheet supersedes the previous editions.